

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO. FILING DATE 09/332,271 06/11/1999		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 2716	
		KLAUS FLORIAN SCHUEGRAF	MI22-532		
21567	7590 01/02/	003			
WELLS ST	'. JOHN ROBERT ST AVENUE	EXAMINER			
SUITE 1300		POMPEY, RON EVERETT			
SPOKANE,	WA 99201-3828	•	ART UNIT	PAPER NUMBER	
			2812		
		DATE MAILED: 01/02/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

							De		
			A	pplication No.		Applicant(s)			
, س	0.55	.	0	9/332,271		SCHUEGRAF ET AL.			
	Offic	Action Summary	E	kaminer		Art Unit			
	*			on E Pompey		2812			
Period fo		ING DATE of this commun	nication appear	s on the cover	sheet with the co	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)⊠ Responsive to communication(s) filed on <u>20 December 2002</u> .									
2a)[This action	on is FINAL .	2b)⊠ This a	ction is non-fir	nal.				
3)[s application is in condition accordance with the prac					e merits is		
Disposit	ion of Clai		tice under Lx	varie Quayle,	1900 O.D. 11, 4	33 O.G. 213.			
4)⊠ Claim(s) <u>1-12,15-20,29-32 and 37-40</u> is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.									
6)⊠	6)⊠ Claim(s) <u>1-12,15-20,29-32 and 37-40</u> is/are rejected.								
	- ,	is/are objected to.							
	–	are subject to restric	ction and/or ele	ection requiren	nent.				
	ion Papers	cation is objected to by th	e Evaminer						
	•	g(s) filed on is/are:		or h) objecte	d to by the Evan	niner			
٠٠٠/					•				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority ι	ınder 35 U	.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)	☐ All b)☐	Some * c) None of:							
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachmen	t(s)		·		-				
2) Notic	e of Draftsper	es Cited (PTO-892) son's Patent Drawing Review (F sure Statement(s) (PTO-1449) P		5) 🔲		(PTO-413) Paper No(atent Application (PT			

Application/Control Number: 09/332,271 Page 2

Art Unit: 2812

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujii et al.(US 5,355,010).

Fujii discloses the limitations of:

forming a silicide layer (12, fig. 2C) against the polysilicon layer;

proving an impurity within the silicide layer, by ion implantation; and

providing the polysilicon layer and the silicide layer into a conductive line shape

(col. 4, Ins. 29 - 65).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-8, 10-12, 15-20, 29-32 and 37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii et al.(US 5,355,010)..

Fujii discloses the claimed invention except for the other various methods of doping a silicide layer, besides ion implantation. It would have been an obvious matter of design choice to dope the silicide layer by any of the other claimed methods, since applicant has not disclosed that any of the methods of doping in itself solves any stated problem other than the doping of the silicide and it appears that the method of doping silicide is not the critical part of the invention, therefore the invention would perform equally well with any doping method of the silicide.

Also, the examiner takes official notice that the post processes including RTP steps to activate dopants and forming oxide sidewall spacers, via annealing in oxygen-comprising atmospheres are well known process steps used in semiconductor manufacturing art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ron E Pompey whose telephone number is (703) 305-3016. The examiner can normally be reached on flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Ron Pompey Art Unit: 2812

December 30, 2002

John F. Niebling
Supervisory Patent Examiner

Technology Center 2800